

*2004 NCDOT
Traffic Engineering Conference
For
Operations & Safety*



*Charlotte's Photographic Speed
Enforcement Program*

September 9, 2004

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Charlotte Dept. of Transportation

Why Photo Speed Enforcement?



Why Photo Speed Enforcement?

- Over 25,000 collisions during 2003.
- More than 5,000 speed related collisions in 2003.
- 2,771 people injured in speed related collisions.
- 26 speed related fatalities in 2003



Speed Related Collisions Cost Us All

- Medical Costs
- Emergency Services
- Loss of productivity
- Legal services
- Rehabilitation
- Insurance
- Workplace costs
- Funeral expenses
- Travel delay
- Property Damage

\$450,000,000

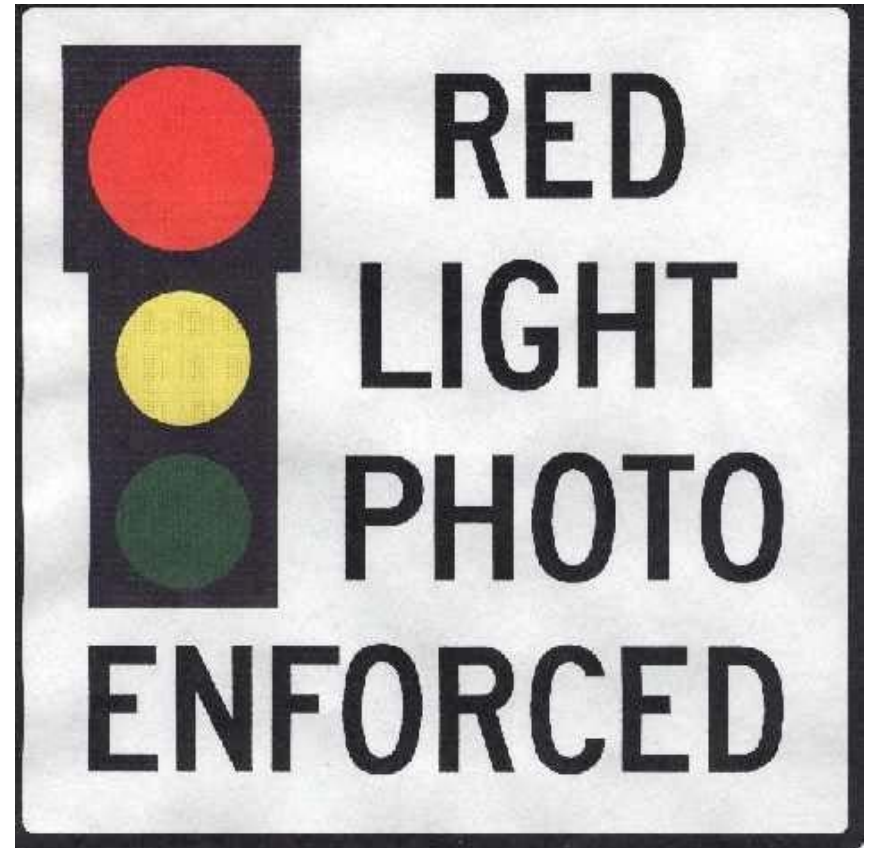
Source: ***The Economic Cost of Motor Vehicle Crashes, 1994***

National Highway Traffic Safety Administration

Similar Programs

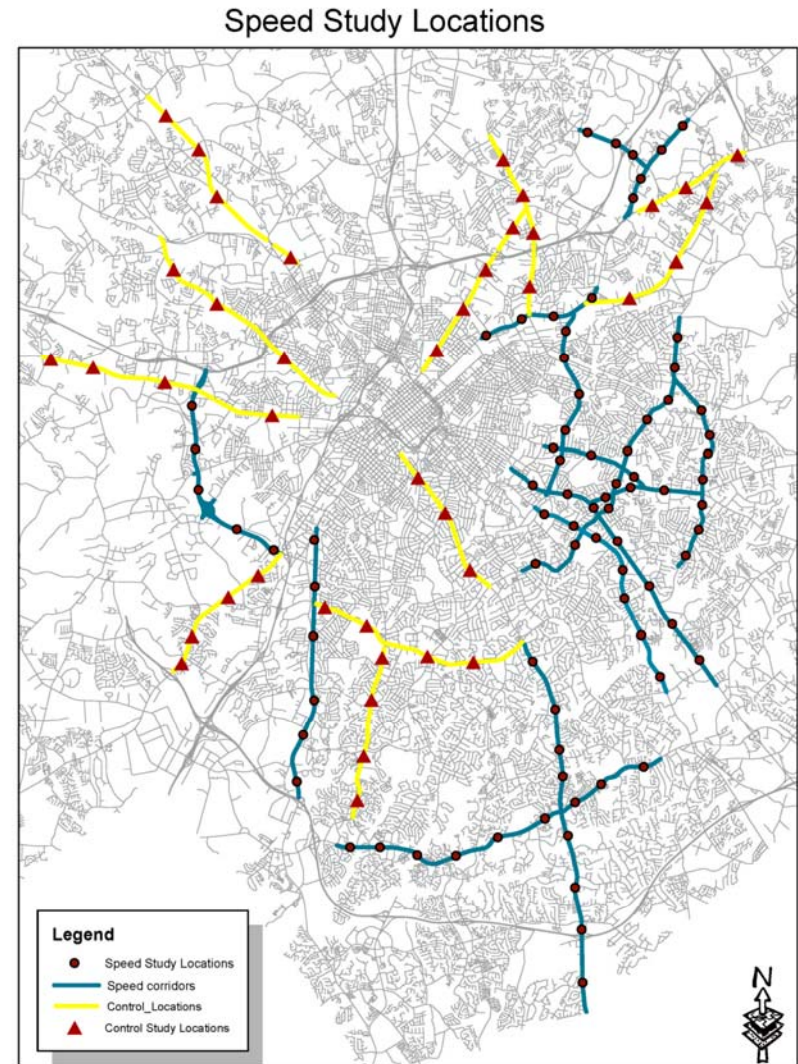
- **Safelight**

- Charlotte's red-light running camera program.
 - *15% decrease in collisions at camera equipped intersections*
 - *36% decrease in angle collisions at camera equipped intersections*
 - *More than a 10% decrease in angle collisions at all signalized intersections.*



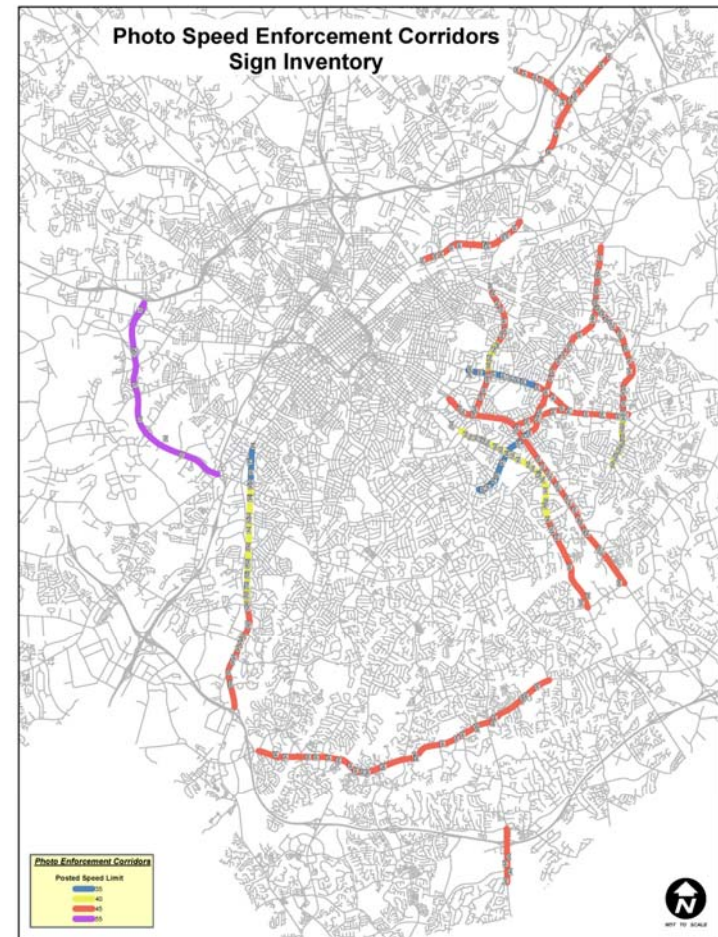
Charlotte DOT's Supporting Role

- Data Collection
 - 120 Speed Studies
 - 80 locations within the enforcement zones
 - 40 control locations
 - 3 years of Crash Data
 - All collisions within enforcement zones
 - All collisions in control zones



Charlotte DOT's Supporting Role

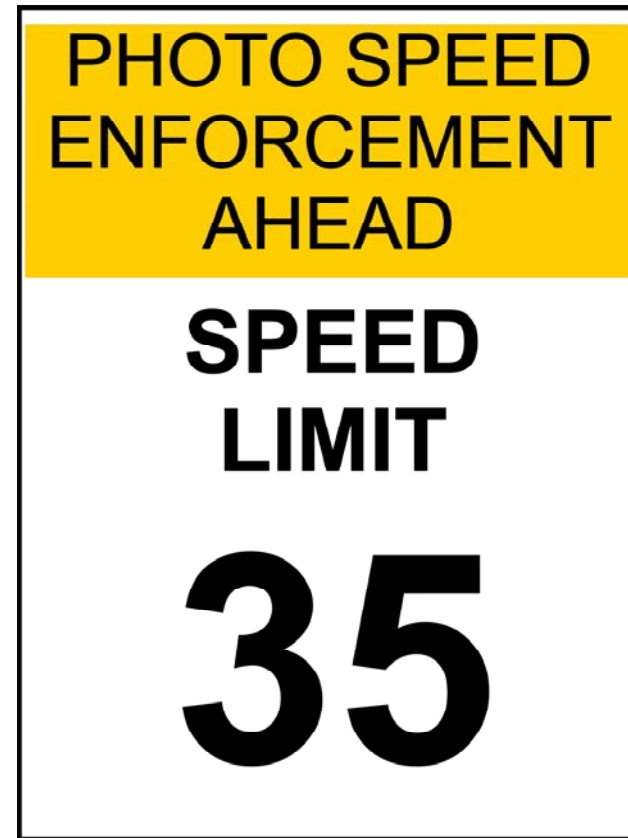
- Corridor & Vehicle Signing
 - 14 Corridors representing 58 miles of Charlotte roadways.
 - Speed Limits in the corridors range from 30 mph to 55 mph.
 - Installed approximately 171 advisory plates and created 3 “variable” speed signs for the enforcement vehicles.
 - All sign locations were located and mapped using GPS & GIS.



Charlotte DOT's Supporting Role



Speed Limit Sign with
advisory plate



Advance warning sign,
placed within 1000 ft. of the
enforcement vehicle

Conventional Enforcement

- Short term results with a large resource commitment.
 - Burden placed on officers and courts.
 - Removes police resources from other duties
 - Ties up judicial system
- Typical traffic stop takes approximately 20 minutes. Only results in 24 citations during an 8 hour shift.
- Road configurations and volumes can hinder traditional enforcement.



Developing Charlotte's Program

- Legislative Efforts
 - Key Concessions
 - Enforcement limited to 12 roadways or 14 corridors.
 - Locations had to be identified with advance signing.
 - Sunset on the legislation, June 30th, 2006.
 - All proceeds go to the local school system.
 - A uniformed officer must monitor the system.



Developing Charlotte's Program

- Equipment Selection
 - All speed measuring devices in NC must be on an Approved Speed Measuring Instrument List.
 - Equipment is tested and evaluated by the Speed Measuring Instrument Advisory Committee (SMI).
 - Potential vendors of photo enforcement technologies were required to submit their equipment for testing.
 - The SMI committee determined that laser based systems would best serve the need for photo speed enforcement.



The SafeSpeed Program


- **Technology**

- Laser based radar (LIDAR)
- Laser beam is directed at a lane of travel. Speeds of passing vehicle are measured and offenders are targeted by the laser.
- Digital photograph taken of speeding vehicles
- Laser targeting reticule is shown on the offending vehicle to reduce citation disputes.




The SafeSpeed Program

- Citations
 - Registered owner receives a ticket for \$50.00
 - Ticket displays a color wide angle view and a b/w close up of the tag.
 - Tickets are written in English & Spanish.
 - Program allows for online payment.



City of Charlotte
Safe Speed Camera Enforcement Program
 229 South Brevard Street, Suite 102, Charlotte, NC 28202
 (704) 375-3177


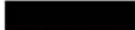


NOTICE OF CITATION
AVISO DE CITACION

Payment Due Date: 09/07/2004
 Fecha de vencimiento de pago

Citation Number 3710927
 Numero de citacion

Internet Password: 7C9VSI
 Contraseña del Internet

Amount ~ Cantidad: \$50.00

 * 3 7 1 0 9 2 7 *

 Charlotte, NC 28227

Amount Paid ~ Cantidad pagada \$


Contact us on the Internet for
 citation information and payments at:

<https://onlineviolation.com/charlottespeeding>

Póngase en contacto con nosotros por Internet para
 obtener información sobre citaciones y pagos en:

<https://onlineviolation.com/charlottespeeding>

Detach here and return the above portion with your payment
 Separe aquí la hora y devuelva la parte superior con su pago

Speed limit límite de velocidad	Speed Velocidad	Vehicle Tag Number Numero de calcomanía del vehículo	Date / Time Fecha / Hora	Location of Violation Ubicación del vehículo
45.00	59.00		08/03/2004 11:54 AM	3500-3700 Independence Blvd west

On August 03, 2004 at 11:54 AM your vehicle was photographed (see below) while exceeding the posted speed limit in violation of Charlotte City Code Section 14-203. The civil fine for this violation is \$50.00. No points will be assessed against your driving record or insurance as a result of this violation. Please see the reverse side for payment and the process to appeal this citation.



This program has been initiated to increase roadway safety and reduce accidents, injuries and fatalities.

Important Notice: Failure to pay this civil fine by the due date shown above will result in an additional late penalty of \$50.00. Request for appeal, transfer of responsibility, or payment must be received prior to the due date to be considered. On-line payments and appeal is available at the internet address noted above.

El August 03, 2004 a las 11:54 AM su vehículo fue fotografiado (vease abajo) mientras excedía el límite anunciado de velocidad en violación a la Sección del Código de la Ciudad de Charlotte 14-203. La multa civil por esta violación es de \$50.00. No se agregaran puntos a su historial de infracciones de tránsito o a su seguro como resultado de esta violación. Favor de ver el lado reverso para saber sobre el pago y el proceso de apelación de esta citación.

Este programa se ha iniciado para aumentar la seguridad de tránsito y para reducir accidentes, lesiones y muertes.

Aviso importante: No pagar esta multa civil antes de la fecha de vencimiento arriba tendrá como resultado una multa por retraso de \$50.00. Se deben recibir las peticiones por apelación, las transferencias de responsabilidad, o los pagos, antes de la fecha de vencimiento para que se tomen en consideración. Los pagos y las apelaciones en línea están disponibles en la dirección del Internet escrita arriba.

Safe Speed Saves Lives in Charlotte ~ Las velocidades seguras salvan vidas en Charlotte

Questions?



Thank You